

PATENT SPECIFICATION

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473,231

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COMPLETE SPECIFICATION

Improvements relating to Skis

I, LOUIS EDGAR RAPIN, a citizen of the French Republic, of 13 Rue du Docteur Lancereaux, Paris, France, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

This invention relates to skis and has for its object to provide a device for covering the sliding surface of a ski, or to be secured or fitted to the ski and adapted to effect a braking action rearwardly during the ascent of a slope while allowing perfect skidding to take place during the descent or when travelling upon level ground. According to the present invention the device consists of a flexible band the sliding surface of which is provided with tongues pointing in the same direction, and each increasing in thickness from the tip to the root, a cavity in the band adjacent to each tongue and of corresponding form being provided so that the tongues project from the outer surface of the band during ascent, and become flush with the surface of the band during descent. This shape and arrangement of the tongues not only increases their strength but ensures facilities for the expulsion of snow collecting in the cavities. The tongues are preferably formed by being cut out of the band so as to be integral therewith, and the band may be constructed of rubber or rubber composition, or of other suitable material.

One of the principal advantages of this device consists in the fact that on the one hand the rubber or other material of which the band or bands is composed slides very freely upon snow, and on the other hand, the tongues, above referred to can sink into the snow and thus prevent the backward motion of the ski during the ascent, while they can become fully retracted so as to be flush with the sliding surface on level ground or on the descent, thus permitting free sliding action under these conditions. Again, the rubber or the like cannot become soaked with water and retains its shape so that the device of the invention may be permanently secured to the ski, or may be removable, being secured there-

to by clamps, bands, straps or the like.

In the accompanying drawings, which are given solely by way of example:—

Figure 1 is a plan view of a part of a rubber band provided with tongues in accordance with the invention. 60

Figure 2 is a side view of the same.

Figure 3 is a view in partial section.

In the construction illustrated, the device comprises a rubber band 1 provided with longitudinal tongues 2 which are formed by cutting into the rubber. These tongues are disposed in staggered formation extending over the whole width of the band or in any other suitable manner. The tongues 2 are so cut as to form recesses 3, the shape of each of which is the complement of that of the tongue, so that the tongues will enter the recesses 3 during the descent of a slope. During ascent, however, the tongues 2 are raised by the resistance of the snow to the position shown in Figure 2 in which the arrow *f* represents the direction of the backward motion of the ski during ascent. In this case, the tongues 3 will brake the ski and prevent any slipping or backward movement. 70 75 80

The rubber band 1 may have the form represented in the drawings and several similar bands may be applied to or embedded in the sliding surface of the ski. The said band can be given the same form as the sliding surface of the ski so that this surface can be entirely covered by the device. 85 90

The device may be embedded into the sliding surface of the ski or may be permanently secured thereto in any other way, or again it may be removably attached by means of bands, straps or the like. 95

The invention is evidently not limited to the construction above described and illustrated by way of example. 100

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:— 105

1. A ski provided with a flexible covering band the sliding surface of this band having tongues pointing in the same direction and each increasing in thickness from the tip to the root, a 110

cavity in the band adjacent to each tongue and of corresponding form being provided in the band, for the purpose of exerting a braking effect when the ski tends to move rearwardly.

5 2. A ski provided with a band as claimed in claim 1, in which the tongues are formed integral with the band which is composed of rubber or a rubber composition, for the purpose specified.

3. A ski provided with a device constructed, arranged and operating substantially as described with reference to the accompanying drawings.

Dated this 4th day of March, 1937.

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Fig- 1

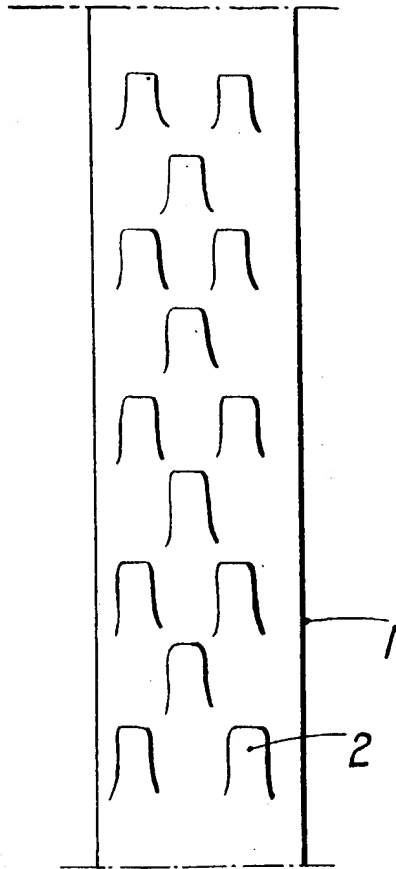
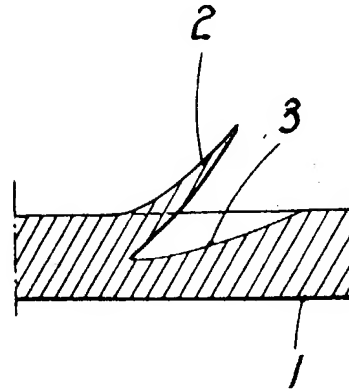
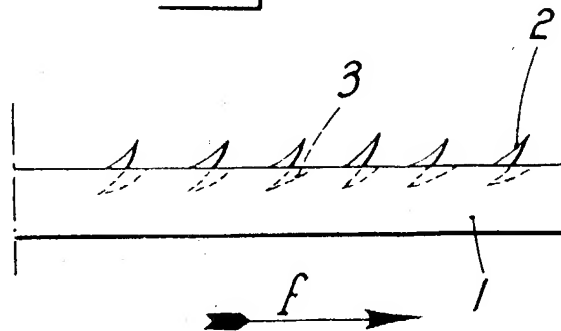


Fig- 3



Palmer

Fig- 2



[This Drawing is a full-size reproduction of the Original.]